

Title (en)

SUPPORTING EFFICIENT AND ACCURATE SYNC/FOLLOWUP TIMESTAMPS

Title (de)

UNTERSTÜTZUNG EFFIZIENTER UND AKKURATER SYNCHRONISIERUNGS-/WEITERVERFOLGUNGS-ZEITSTEMPEL

Title (fr)

SUPPORT D'HORODATAGES DE SYNCHRONISATION/SUIVI EFFICACES ET PRÉCIS

Publication

EP 2235869 A2 20101006 (EN)

Application

EP 09704370 A 20090122

Priority

- US 2009000400 W 20090122
- US 2041408 A 20080125

Abstract (en)

[origin: US2009190613A1] In one embodiment, a physical (PHY) layer (lower protocol stack layer) of a device may add a timestamp to a received frame, and pass the frame and timestamp up the protocol stack toward a synchronization (sync) recognition layer (upper protocol stack layer). The sync recognition layer determines whether the frame relates to synchronization, and if so, places the timestamp into a data structure along with a frame association for recovery by followup processing. Conversely, in another embodiment, the sync recognition layer may add to a frame for transmission a frame ID having an indication of whether to timestamp the frame and may pass the frame and frame ID down the protocol stack toward the PHY layer. The PHY layer determines whether the frame ID indicates that the frame is to be timestamped, and if so, places a timestamp corresponding to frame transmission into a data structure with the frame ID.

IPC 8 full level

H04L 7/00 (2006.01); **H04J 3/06** (2006.01); **H04L 29/06** (2006.01)

CPC (source: EP US)

H04J 3/0697 (2013.01 - EP US); **H04L 43/106** (2013.01 - US); **H04L 47/50** (2013.01 - US); **H04J 3/0667** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

US 2009190613 A1 20090730; US 9112632 B2 20150818; CN 101971556 A 20110209; CN 101971556 B 20131211; EP 2235869 A2 20101006; EP 2235869 A4 20170405; EP 2235869 B1 20190327; US 10079748 B2 20180918; US 2015333996 A1 20151119; WO 2009094158 A2 20090730; WO 2009094158 A3 20091203

DOCDB simple family (application)

US 2041408 A 20080125; CN 200980102936 A 20090122; EP 09704370 A 20090122; US 2009000400 W 20090122; US 201514809059 A 20150724